

### Table 1: Examples of Alloys

Example	Chemical Composition in %															
	Ni	Cr	Mo	Fe	Si	Nb	Ti	Mg	Al	Hf	S	P	Mn	C	O	N
A	Rest	20.6	8.8	3.1	1.7	-	0.27	0.003	0.19	0.035	0.002	0.002	0.03	0.025	0.003	0.006
B	Rest	20.6	8.8	3.03	1.3	-	0.28	0.004	0.18	0.045	0.002	0.002	0.03	0.023	0.0035	0.0040
C	Rest	20.7	8.8	3.1	1.3	-	0.26	0.005	0.17	0.051	0.003	0.002	0.03	0.026	0.003	0.0065
D	Rest	20.6	8.8	3.04	0.95	-	0.27	0.006	0.19	0.050	0.002	0.002	0.03	0.017	0.0035	0.0055
E	Rest	20.8	8.7	3.2	0.6	-	0.28	0.008	0.20	0.054	0.002	0.003	0.04	0.019	0.006	0.010
F	Rest	21.9	9.4	4.1	1.56	0.01	0.28	0.009	0.16	-	0.002	0.002	0.03	0.060	0.001	0.005
G	Rest	22.2	9.2	0.8	0.08	0.01	0.32	0.005	0.14	-	0.002	0.002	0.03	0.012	0.001	0.012
H	Rest	22.50	15.5	0.34	0.04	0.01	0.01	0.008	0.31	-	0.003	0.002	0.15	0.007	-	-
2.4856	Rest	22.25	9.18	2.53	0.07	3.44	0.22	0.006	0.12	-	0.003	0.004	0.08	0.015	-	0.017

Fig.1: Loss of mass (metal loss) after 240 hour aging of salt-subjected samples in air at 750°C

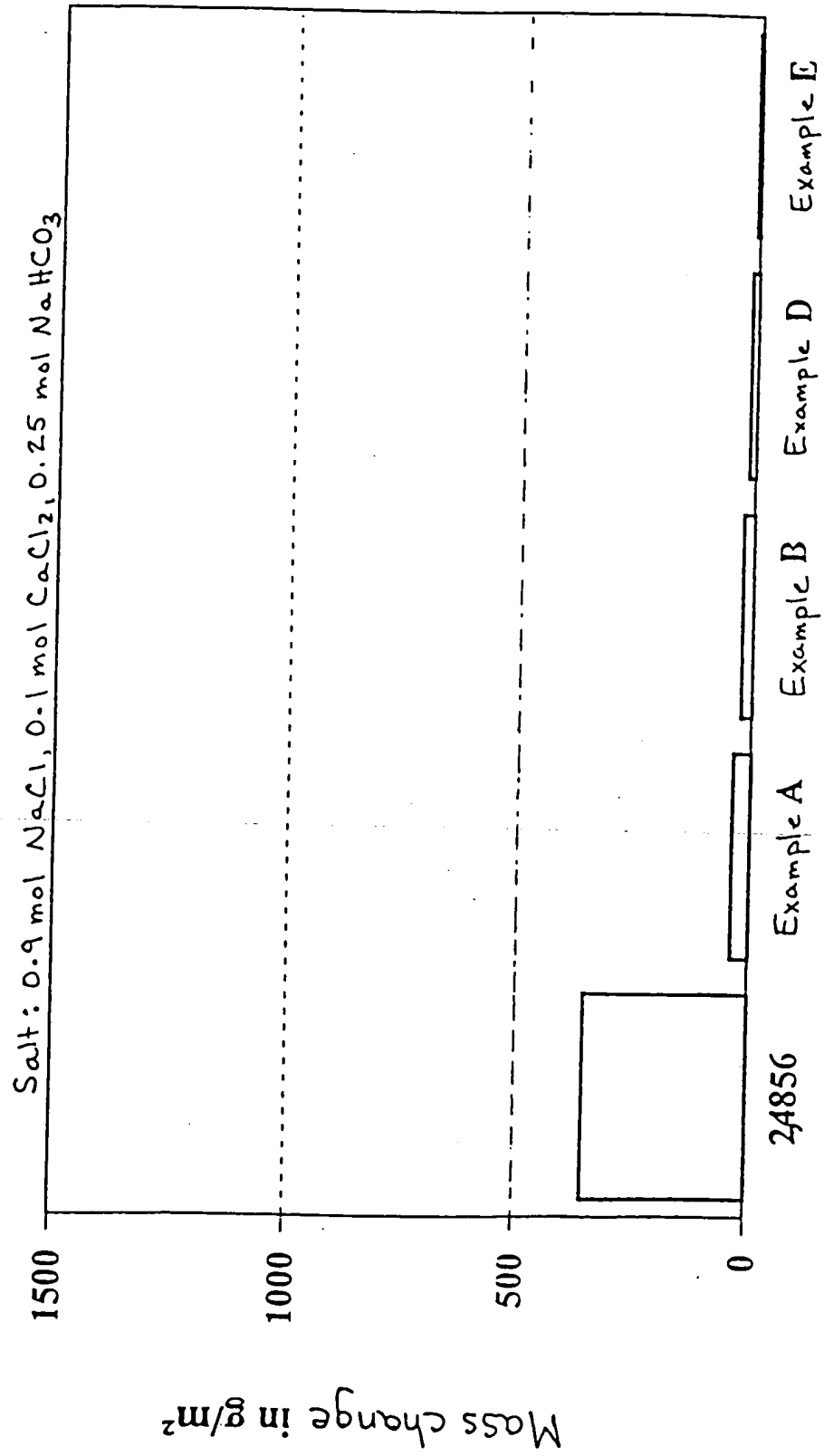


Fig.2: Metallographically determined corrosion effect after 240 hours aging of samples subjected to salt, in air at 750°C

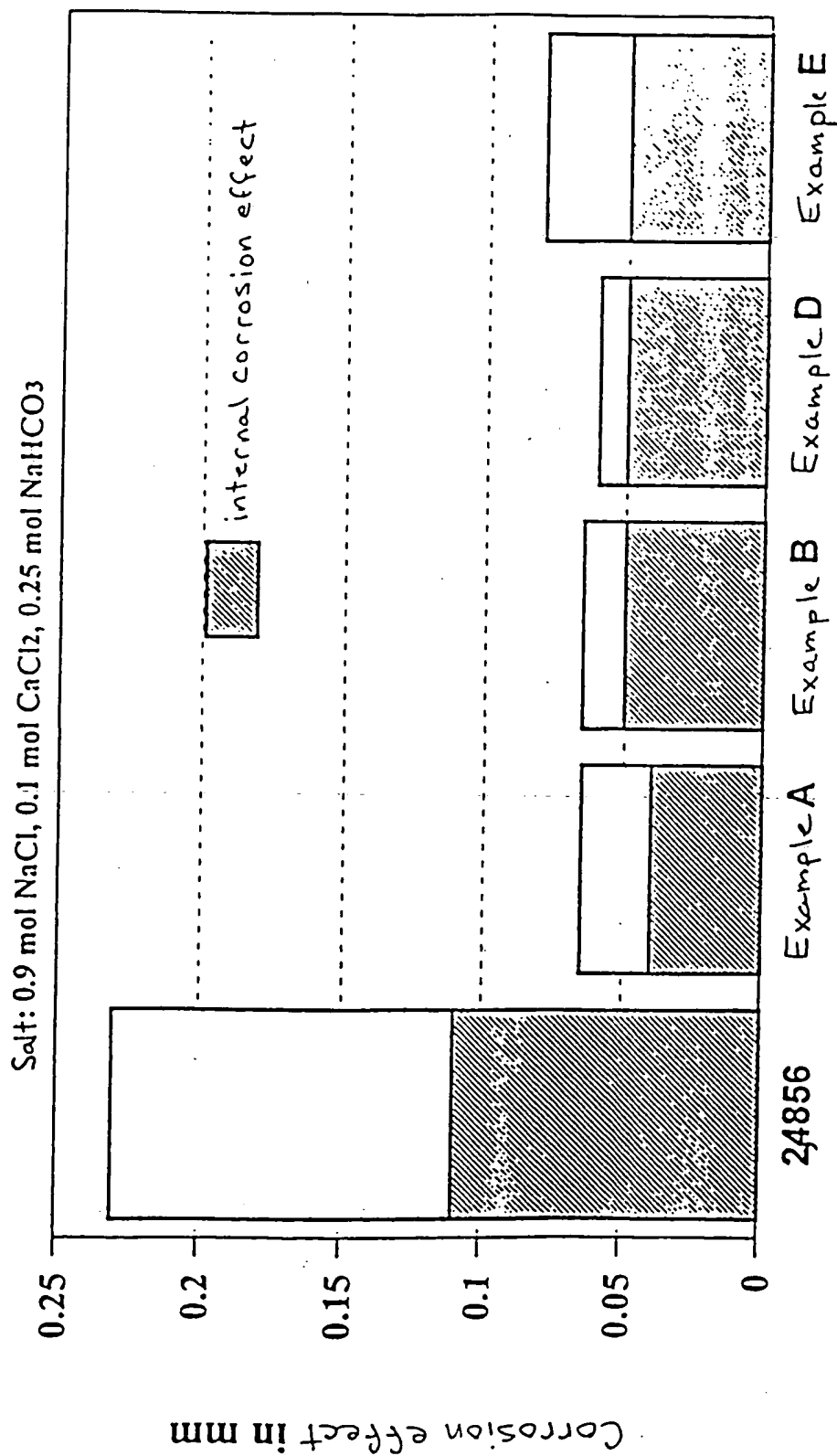


Fig.3: Internal Corrosion, metal removal and overall corrosion effect after 1000 hours of aging (600°C) in synthetic waste burning gas

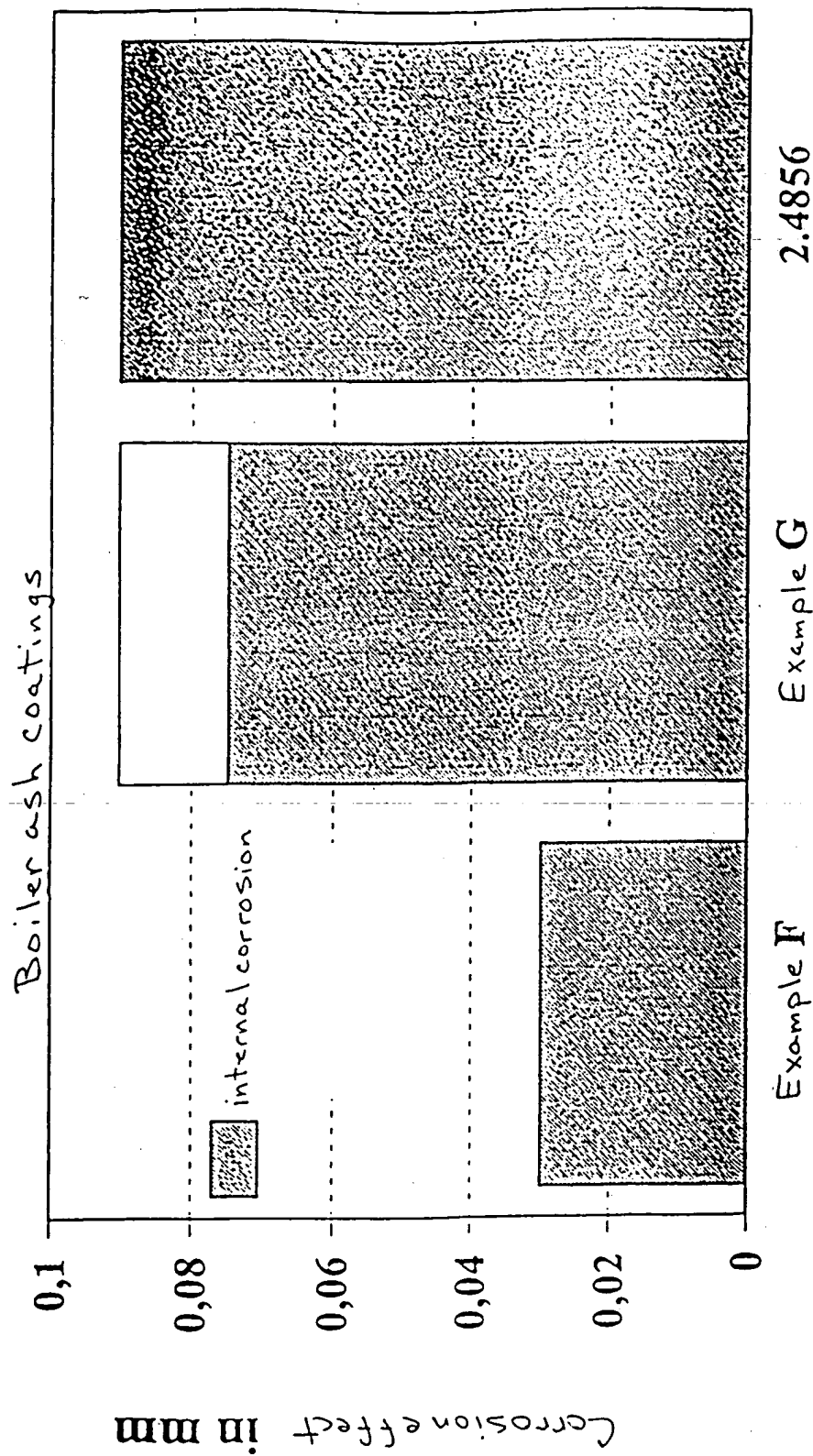


Fig.4: Overall corrosion effect after 1008 hours aging at 750°C  
in synthetic waste burning gas; Samples coated  
with  $\text{Na}_2\text{SO}_4/\text{KCl}$  (750°C)

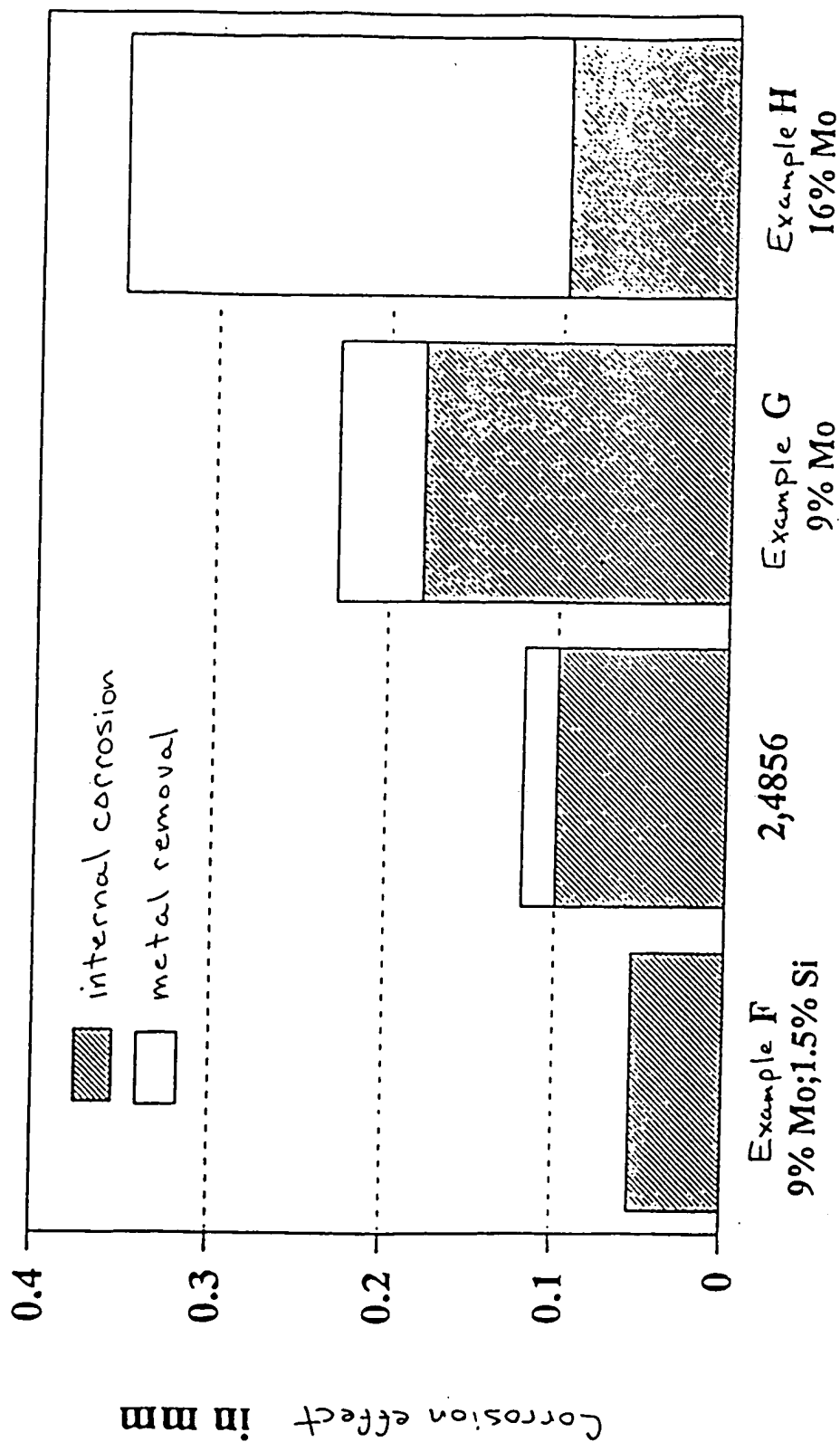


Fig.5: Notch bar test toughness of Ni-20Cr-9Mo-Si alloys after aging in air at 600°C

